

ANALYTICAL RESULTS

Project: Residue TCLP
Pace Project No.: 252165

Sample: **Drum Reconditioning Residue** Lab ID: 252165001 Collected: 09/24/09 10:30 Received: 09/24/09 12:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/01/09 17:00								
Arsenic	ND	mg/L	1.0	1	10/02/09 16:30	10/05/09 18:34	7440-38-2	
Barium	ND	mg/L	5.0	1	10/02/09 16:30	10/05/09 18:34	7440-39-3	
Cadmium	ND	mg/L	0.20	1	10/02/09 16:30	10/05/09 18:34	7440-43-9	
Chromium	ND	mg/L	1.0	1	10/02/09 16:30	10/05/09 18:34	7440-47-3	
Lead	ND	mg/L	1.0	1	10/02/09 16:30	10/05/09 18:34	7439-92-1	
Selenium	ND	mg/L	0.20	1	10/02/09 16:30	10/05/09 18:34	7782-49-2	
Silver	ND	mg/L	1.0	1	10/02/09 16:30	10/05/09 18:34	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Leachate Method/Date: EPA 1311; 10/01/09 17:00								
Mercury	ND	ug/L	5.0	1	10/07/09 13:50	10/08/09 09:56	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	3.0	%	0.10	1		10/02/09 11:45		

Date: 10/08/2009 04:05 PM

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October 08, 2009

Rick Cabuco
ICS Washington
7152 1st Avenue South
Seattle, WA 98108

RE: Project: Residue TCLP
Pace Project No.: 252165

Dear Rick Cabuco:

Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Taylor

natalie.taylor@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Residue TCLP
Pace Project No.: 252165

Washington Certification IDs

Washington Certification #: C1229
Oregon Certification #: WA200007
Florida/NELAP Certification #: E87617
Alaska CS Certification #: UST-025

Alaska Drinking Water Micro Certification #: WA01230
Alaska Drinking Water VOC Certification #: WA01-09
California Certification #: 01153CA

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SAMPLE ANALYTE COUNT

Project: Residue TCLP
Pace Project No.: 252165

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
252165001	Drum Reconditioning Residue	ASTM D2974-87	DJK	1	PASI-S
		EPA 6010	BGA	7	PASI-S
		EPA 7470	BGA	1	PASI-S

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QUALITY CONTROL DATA

Project: Residue TCLP

Pace Project No.: 252165

QC Batch: PMST/1104

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 252165001

SAMPLE DUPLICATE: 12824

Parameter	Units	251993005 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.0	22.0	0	

QUALITY CONTROL DATA

Project: Residue TCLP

Pace Project No.: 252165

QC Batch: MERP/1084

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury TCLP

Associated Lab Samples: 252165001

METHOD BLANK: 13099

Matrix: Water

Associated Lab Samples: 252165001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	5.0	10/08/09 09:50	

LABORATORY CONTROL SAMPLE: 13100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.3	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 13102

13101

Parameter	Units	252165001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	15	15	15.6	15.5	104	103	85-115	.5	

QUALITY CONTROL DATA

Project: Residue TCLP

Pace Project No.: 252165

QC Batch: MPRP/1295

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET TCLP

Associated Lab Samples: 252165001

METHOD BLANK: 12949

Matrix: Water

Associated Lab Samples: 252165001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	1.0	10/05/09 18:15	
Barium	mg/L	ND	5.0	10/05/09 18:15	
Cadmium	mg/L	ND	0.20	10/05/09 18:15	
Chromium	mg/L	ND	1.0	10/05/09 18:15	
Lead	mg/L	ND	1.0	10/05/09 18:15	
Selenium	mg/L	ND	0.20	10/05/09 18:15	
Silver	mg/L	ND	1.0	10/05/09 18:15	

LABORATORY CONTROL SAMPLE & LCSD: 12950

12951

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Arsenic	mg/L	.5	0.49	0.47	98	95	80-120	3	20	
Barium	mg/L	.5	0.56	0.53	111	107	80-120	4	20	
Cadmium	mg/L	.5	0.49	0.48	97	95	80-120	2	20	
Chromium	mg/L	.5	0.51	0.50	102	100	80-120	2	20	
Lead	mg/L	.5	0.52	0.51	104	102	80-120	2	20	
Selenium	mg/L	.5	0.49	0.48	97	95	80-120	2	20	
Silver	mg/L	.25	0.20	0.20	81	80	80-120	2	20	

Date: 10/08/2009 04:05 PM

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QUALIFIERS

Project: Residue TCLP

Pace Project No.: 252165

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S Pace Analytical Services - Seattle